

NEW SPECIES OF THE GENUS *MEGACOELUM* FIEBER FROM CHINA (MIRIDAE, HETEROPTERA)

Li, X. Z. & L. Y. Zheng, 1991. New species of the genus *Megacoelum* Fieber from China (Miridae, Heteroptera). – Tijdschrift voor Entomologie 134: 183-192, figs. 1-45. [ISSN 0040-7496]. Published 18 December 1991.

Seven new species of the genus *Megacoelum* Fieber from China are described: *M. pronotalis*, *M. chinensis*, *M. rubripedum*, *M. pseudopronotalis*, *M. zoui*, *M. tenuicorne* and *M. yunnanum*. *M. fuscescens* Hsiao, 1963 is redescribed.

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Key words. – China; *Megacoelum*; Miridae; new species.

The genus *Megacoelum* Fieber was established in 1858. Since then more than 60 species have been described, most of them distributed in the Old World tropics and subtropics (Distant 1904, 1910, Oshanin 1910, Poppius 1914, Carvalho 1959, Linnavuori 1963-1975, Wagner 1970/1971, Kershner 1972). Up to now, only three species were recorded from China. Two of them were described from Taiwan (*M. minutum* and *M. clypeale*) by Poppius (1915), and the third (*M. fuscescens* Hsiao, 1963) was described from Yunnan (Hsiao & Meng 1963). Seven new species, found in China, are described in this paper, and *M. fuscescens* Hsiao is redescribed.

Megacoelum minutum and *M. clypeale* are only included in the key. A redescription of these species could not be provided since the types were not accessible to us.

In the descriptions, 'body length' = the distance from head apex to hemelytral apex, 'body width' = the maximum width across both hemelytra at repose, 'head length' = the length in front view, and 'pronotum length' = the length including collar. Measurements are given in millimeters. In the figures of the vesicae, the secondary gonopore is dorsally directed.

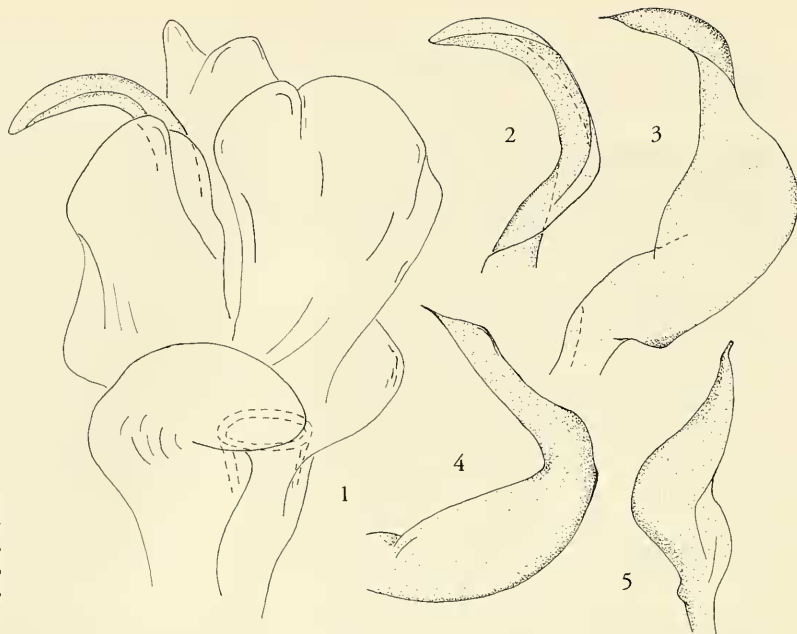
The material cited in this paper was all collected in China. The types of the new species are deposited at the Biology Department of the Nankai University except where mentioned otherwise. TJNM means Tianjin Natural Museum, China.

Checklist of Chinese species of *Megacoelum*

- Megacoelum pronotalis* Li et Zheng sp. n.
(Zhejiang, Jiangxi, Shanxi)
- Megacoelum chinensis* Li et Zheng sp. n.
(Zhejiang, Fujian)
- Megacoelum rubripedum* Li et Zheng sp. n.
(Fujian)
- Megacoelum pseudopronotalis* Li et Zheng sp. n.
(Fujian)
- Megacoelum zoui* Li et Zheng sp. n. (Yunnan)
- Megacoelum tenuicorne* Li et Zheng sp. n.
(Guangdong, Guangxi, Sichuan)
- Megacoelum yunnanum* Li et Zheng sp. n.
(Yunnan)
- Megacoelum fuscescens* Hsiao, 1963. (Guangdong, Guangxi, Hainan, Yunnan)
- Megacoelum clypeale* Poppius, 1915. (Taiwan)
- Megacoelum minutum* Poppius, 1915. (Taiwan)

Key to the Chinese species of *Megacoelum*

1. Cuneus yellow with black apex. Outer basal angle of membrane with a whitish spot. Body small, length 5mm *minutum* Poppius
– Cuneus at least basal 2/3 black, membrane unicolorously dark smoky 2
2. Black, with calli and areas before and behind reddish brown. Pronotal basal margin narrowly yellow, embolium and outer cuneus reddish, apical third of cuneus yellowish brown *yunnanum* sp. n.
– Calli concolorous with pronotum. Hemelytra differently coloured 3
3. Pronotum medially with black markings ... 4



Figs. 1-5. *Megacoelum fuscescens* Hsiao. - 1, vesica in dorsal view; 2, spicule; 3, 4, left clasper, 5, right clasper.

- Pronotum without black markings 6
- 4. Pronotum with a triangular black spot at anterior margin, a round median black spot at hind margin of calli, and a long black spot at hind margin. Rostrum only reaching to apex of mesocoxae *clypeale* Poppius
- Pronotum with only one percurring median black marking 5
- 5. Pronotal median black marking broad and well-defined. Pubescence sparse and long *pronotalis* sp. n.
- Pronotal median black marking vague and slender: Pubescence very dense and short *zoui* sp. n.
- 6. Pubescence dense and short. Pygofer without a knob before left clasper ... *rubripedum* sp. n.
- Pubescence sparse and long. Pygofer with a knob before left clasper 7
- 7. Pronotal lateral margin and basal portion darkened, extreme basal margin yellowish brown *fuscescens* Hsiao
- Pronotum unicolorous 8
- 8. Frons with reddish transverse stripes. Clypeus somewhat prominent. Antennae slender *tenuicorne* sp. n.
- Frons without light-colored stripes 9
- 9. Knob on pygofer before left clasper very short. Body comparatively short and broad. Length 6.88-8.74 *chinensis* sp. n.
- Knob on pygofer before left clasper large and sharp. Body slender, length 8.37-8.56 *pseudopronotalis* sp. n.

DESCRIPTIONS

1. *Megacoelum pronotalis* sp. n. (figs. 6-10)

Type material. - Holotype male: Mt. Tianmu (30° 24'N, 119° 30'E), Zhejiang Prov., 15.viii.1965, L. C. Wang leg. - Paratypes: 5 males, 3 females, with same data as holotype; 12 males, 19 females (TJNM), same data as holotype, S. L. Liu leg.; 6 males, 1 female, Mt. Lushan (29° 24'N, 115° 54'E), Jiangxi Prov., 22/24.vii.1957, S. H. Ying leg.; 1 male, 5 females (TJNM), Ku-ling (29° 24'N, 115° 54'E), Jiangxi Prov., 10. vii/7.viii.1935, O. Piel leg.; 2 males, Jiangxi Prov.; 1 male, Zhenba County (32° 30'N, 107° 54'E), Shanxi Prov., 20.vii.1985, S. Z. Ren leg.

Description. - Dark brown, female paler than male, with long and sparse brown hairs. Head dark brown, juga faintly reddish; antennal segment I, IV and extreme base of II dark brown; II brown, gradually turned into dark brown or black apically; III and extreme base of IV yellowish brown. Rostrum surpassing the hind coxae slightly. Collar dirty dark brown, slightly thinner than the basal diameter of antennal segment II, with a row of long black hairs. Pronotum shiny brown, with a darker broad medial longitudinal stripe, sometimes completely dark brown or black (especially the males), or completely brown (especially the females), slightly wrinkled transversely, calli smooth. Scutellum dark brown to black, slightly convex, finely wrinkled transversely, with a transverse impression before extreme apex; pubescence sparse, brown. Mem-

brane dirty black. Legs dark brown, tibial spines shorter than the tibial diameter. Thoracic ventral surface dull, dirty black, hairless. Venter shiny, unevenly reddish brown, male pygofer with a long knob (length 0.33) before left clasper (fig. 6). Vesica with 3 shagreened membranous lobes, an elongate sclerotized plate, connected with a flossy membranous lobe topped with dense minute hairs (figs. 9, 10); left clasper much longer than the right one (figs. 6-8).

Measurements: Body length 8.56-10.09, width 2.93-3.30; head apex to cuneal suture 6.14-7.70. Head length male 1.32-1.35, female 1.27-1.32; width male 1.35-1.39, female 1.35-1.42. Vertex width male 0.39-0.40, female 0.51-0.52. Antennal segment lengths male 1.32-1.40 : 3.42-3.68 : 2.41-2.58 : 1.20-1.29, female 1.31-1.42 : 3.65-3.95 : 2.61-2.81 : 1.47-1.61. Rostrum length 3.75-3.89. Pronotum length 1.57-1.68, width 2.55-2.91. Scutellum length 1.40-1.47. Corium length 4.36-4.69. Length of anterior femur : tibia : tarsus = 2.34-2.42 : 2.75-2.93 : 0.74-0.82; length of hind femur : tibia : tarsus = 2.89-4.15 : 6.03-6.70 : 0.70-1.04.

Remarks. – *M. pronotalis* differs from other known species in the large size, characteristic markings on the pronotum, long and sparse hairs, and the structure of genitalia.

2. *Megacoelum chinensis* sp. n. (figs. 11-17)

Type material. – Holotype: Male, Sangang (27°42'N, 117°36'E), Chong'an County, Fujian Prov., 22.vi.1965, L. C. Wang leg. – Paratypes: 3 males, 3 females, with same locality as holotype, 22/23.vi.1965; 3 males, 8 females, with same locality as holotype, 20.vii./8.viii.1982, H. G. Zou et al leg.; 2 males, Guadun (26°42'N, 117°36'E), Chong'an County, Fujian Prov., 6.viii.1982, C. Chen & P. P. Chen leg.; 1 male (TJNM), Aotou (27°18'N, 118°6'E), Jianyang County, Fujian Prov., 21.vi.1965, S. L. Liu leg.; 1 male (TJNM), Mt. Tianmu (30°24'N, 119°30'), Zhejiang Prov., 15.viii.1965, S. L. Liu leg.; 1 male (TJNM), with same data as holotype, S. L. Liu leg.

Description. – Body relatively short and broad, dark brown to black. Head dull, unevenly brownish black. Antennal segment I thickest, brown, ventral surface darker, with several black setae on inner surface; II brown, slightly incrassate and darkened into black apically, extreme base black; III and IV reddish brown, with paler extreme base, as thick as the base of II. Collar dirty black, slightly thinner than the basal diameter of antennal segment II, with a row of elongate and slender pale hairs. Pronotum shiny, black with pale sparse elongate pubescence, wrinkled transversely, calli smooth. Scutellum slightly convex, densely and finely wrinkled transversely. Hemelytra with sparse long

pale pubescence, membrane smoky black. Legs brown, apical 1/6 of femora darker, hind tibiae dark brown. Thoracic ventral surface dirty dark brown. Venter reddish brown, male pygofer with a very short knob before left clasper. Vesica with 4 large membranous lobes, two of which with apical fine shagreened teeth (fig. 16), a slender rod-like sclerotized spicule curved before apex (fig. 17), and an angulate lobe densely and strongly shagreened (fig. 15). Left clasper (figs. 11-13) long and curved, right clasper short and thick (fig. 14).

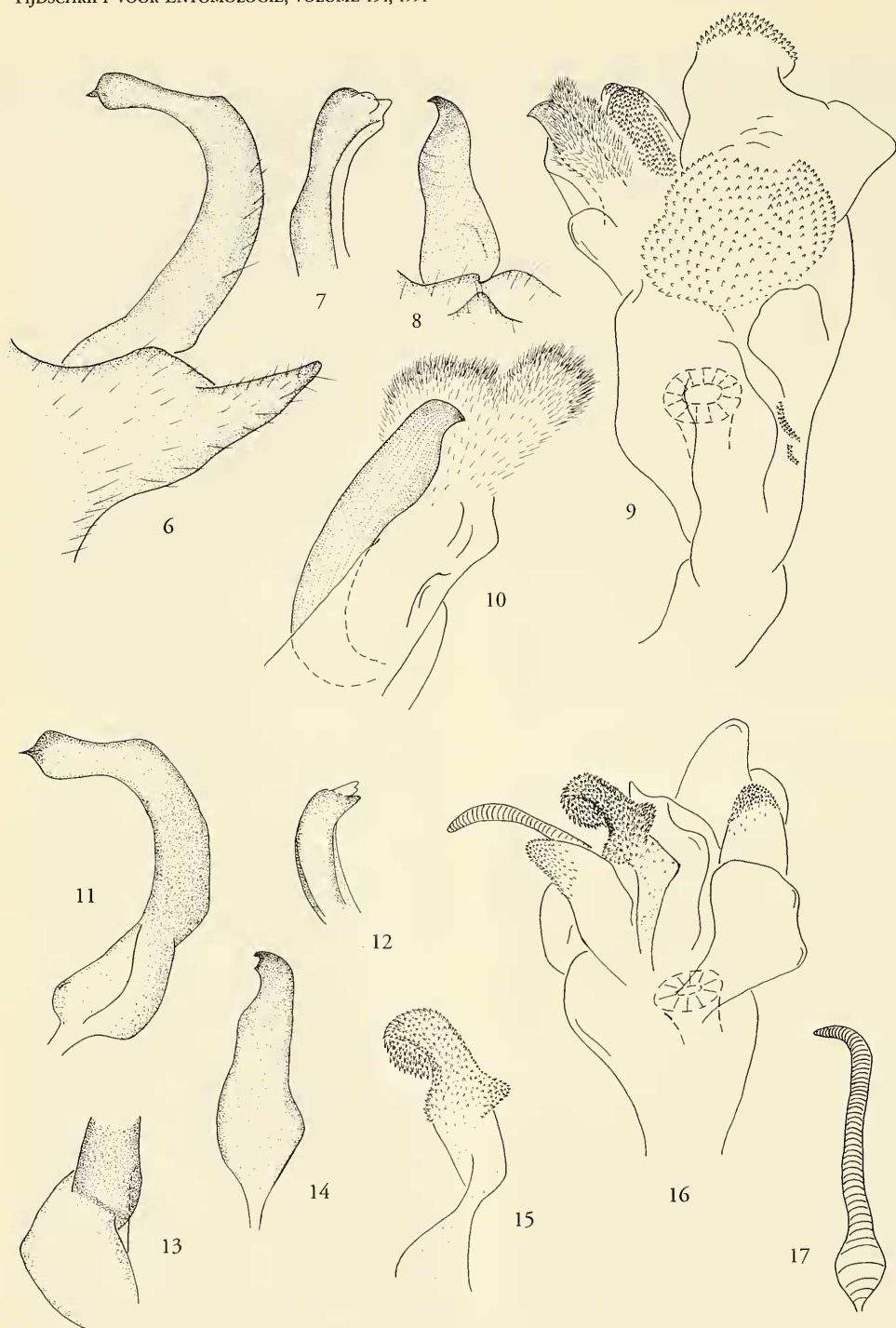
Measurements: Body length 6.88-8.74, width 2.48-3.15; head apex to cuneal suture 5.12-6.75. Head length 1.09-1.16, width 1.20-1.32. Vertex width male 0.46-0.50, female 0.49-0.50. Antennal segment lengths 1.21-1.42 : 3.02-3.35 : 2.28-2.68 : 1.21-1.41. Rostrum length 3.15-3.38. Pronotum length 1.27-1.44, width 2.08-2.48. Scutellum length 1.01-1.17, width 1.07-1.24. Corium length 3.45-4.22. Length of anterior femur : tibia : tarsus = 1.68-2.09 : 2.41-2.65 : 0.65-0.67, length of hind femur : tibia : tarsus = 3.08-3.80 : 4.86-5.43 : 0.67-0.78.

Remarks. – Body shape and colour somewhat similar to *M. pronotalis* sp. n., but differs in smaller size, longer pubescence and the different structure of male genitalia.

3. *Megacoelum rubripedum* sp. n. (figs. 19-25)

Type material. – Holotype male: Sangang (27°42'N, 117°36'E), Chong'an County, Fujian Prov., 5.viii.1982, H. G. Zou leg. – Paratypes: 3 males, 2 females, with same locality as holotype, 29.vii./7.viii.1982, C. Chen et al leg.; 5 males, 2 females, Hexi (24°48'N, 117°12'E), Nanjing County, Fujian Prov., 22.vii.1965, L. C. Wang leg.

Description. – Reddish black, sometimes the female slightly paler, with dense and short yellowish brown hairs. Head dark brown, dull, antennae slender and elongate, red to brown, extreme base of segment II black, extreme base of III, extreme base and apex of IV yellowish brown. Collar brown, thinner than the basal diameter of antennal segment II, with a row of elongate hairs with swollen base. Pronotum black, basal margin narrowly brownish red, densely and transversely wrinkled, calli indistinct. Scutellum black, with fine and dense transverse wrinkles. Hemelytra black, embolium and cuneus brown to red; membrane smoky black, apical angle of large cell nearly rectangular. Legs reddish brown to red. Thoracic ventral surface including coxae dull black. Venter unevenly brownish black, with sparse brown hairs. Male pygofer without any knob before left clasper. Vesica (fig. 22) with 4 membranous lobes (one of them strongly



Figs. 6-17. *Megacoelum* spp. - 6, 7, *Megacoelum pronotalis* sp. n., left clasper; 8, idem, right clasper; 9, idem, vesica in dorsal view; 10, idem, vesica, sclerotized plate and flossy membranous lobe, ventral view; - 11-13, *Megacoelum chinensis* sp. n., left clasper; 14, idem, right clasper; 15, idem, vesica in dorsal view; 16, idem, vesica, shagreened lobe; 17, idem, vesica, spicule.

and roughly shagreened apically, as fig. 24) and dorso-medially a mushroom-like appendage with a sclerotized cap-shaped apex (figs. 23, 25). Left clasper elongate and curved (figs. 18-20), right clasper short, broadly toothed medially (fig. 21).

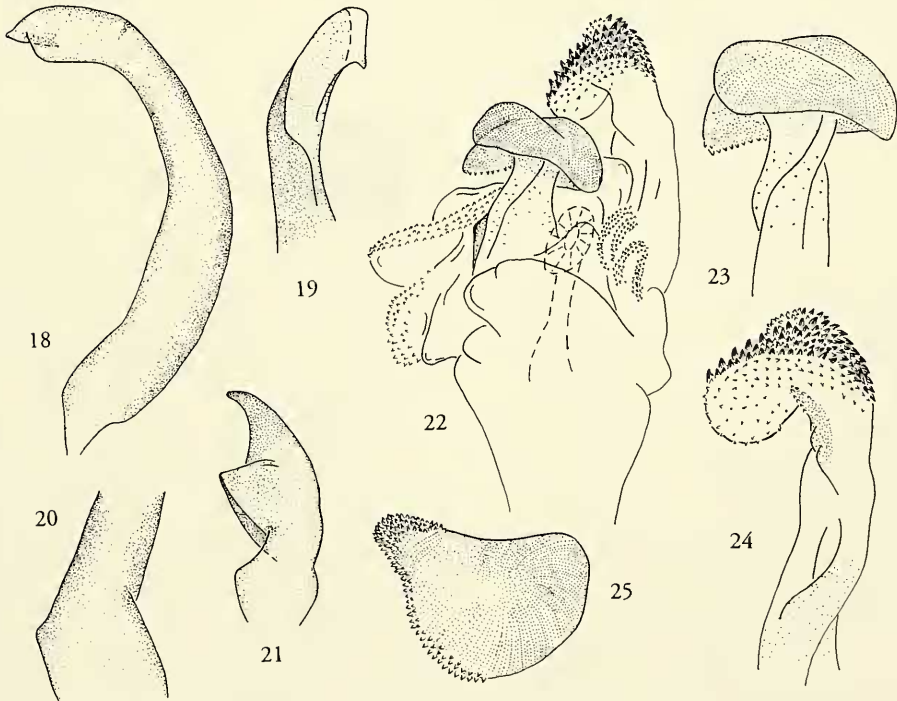
Measurements: Body length 5.81-7.63, width 2.05-2.68; head apex to cuneal suture 4.37-6.03. Head length 0.99-1.22, width 1.09-1.32. Vertex width male 0.43-0.45, female 0.41-0.51. Antennal segment lengths 1.11-1.51 : 2.60-3.75 : 2.28-3.02 : 1.17-1.41. Rostrum length 3.28-3.35. Pronotum length 1.10-1.40, width 1.80-2.21. Scutellum length 0.90-1.21, width 0.90-1.21. Corium length 2.93-3.82. Length of anterior femur : tibia : tarsus = 1.58-1.89 : 1.91-2.48 : 0.54-0.63, length of hind femur : tibia : tarsus = 2.75-3.52 : 4.14-5.26 : 0.59-0.76.

Remarks. – Differs from other known species in the slender and elongate antennae, red or reddish brown legs, dense and short pubescence and the structure of male genitalia.

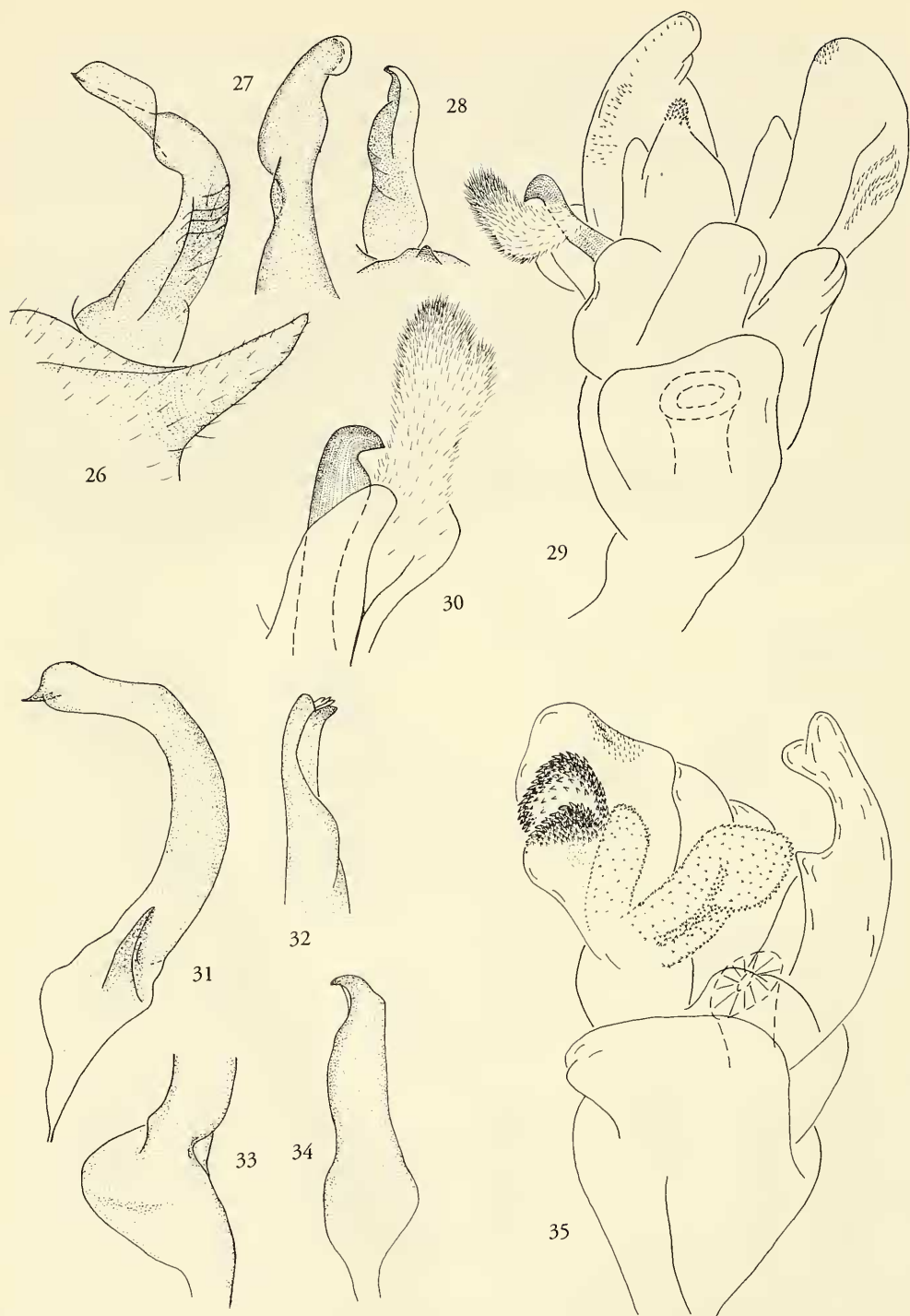
4. *Megacoelum pseudopronotalis* sp. n. (figs. 26-30)

Type material. – Holotype male: Yanshan (27° 18'N, 117° 18'E), Shaowu County, Fujian Prov., 28.v.1965, L. C. Wang leg. – Paratypes: 1 male, with same data as holotype; 1 male (TJNM), Sangang (27° 42'N, 117° 36'E), Chong'an County, Fujian Prov., 22.vi.1965, S. L. Liu leg.

Description. – Black or reddish brown, with sparse dark brown hairs. Head dark brown to black, weakly shining. Gula horizontal. Antennal segment I, extreme base of II black; basal half of II yellowish brown, III and IV absent. Collar dull, black, as thick as the basal diameter of antennal segment II, with a row of elongate dark hairs. Pronotum black, shiny, pubescence sparse, weakly wrinkled transversely, calli smooth with margins indistinct. Scutellum shiny black, finely and transversely wrinkled. Hemelytra dark reddish brown, membrane smoky black. Legs brownish black, an-



Figs. 18-25, *Megacoelum rubripedum* sp. n. – 18-20, left clasper; 21, right clasper; 22, vesica in dorsal view; 23, vesica, lateral view of mushroom-like lobe; 24, same, top view; 25, vesica, shagreened lobe.



Figs. 26-35, *Megacoelum* spp. – 26, 27, *Megacoelum pseudopronotalis* sp. n., left clasper; 28, idem, right clasper; 29, idem, vesica in dorsal view; 30, idem, vesica, sclerotized plate and flossy membranous lobe; 31-33, *Megacoelum zoui* sp. n., left clasper; 34, idem, right clasper; 35, idem, vesica, dorsal view.

terior and middle tibiae excepting extreme apex brown. Thoracic ventral surface dull, black. Venter brownish black. Knob on pygofer before left clasper in male large and sharp, length 0.39 (fig. 26). Vesica (fig. 29) very similar to that of *M. pronotalis* sp. n., but the sclerotized plate more strongly hooked apically (figs. 29, 30). Apical 1/3 of the left clasper (figs. 26, 27) twisted. Right clasper (fig. 28) close to that of *M. pronotalis* sp. n.

Measurements: Body length 8.37-8.56, width 2.75-2.80; head apex to cuneal suture 5.91-6.14. Head length 1.24-1.25, width 1.34-1.35. Vertex width 0.46-0.48. Lengths of antennal segment I and II = 1.34-1.35 : 3.35-3.75. Rostrum length 3.73-3.76. Pronotum length 1.38-1.39, width 2.41-2.43. Scutellum length 1.16-1.22, width 1.29-1.32. Corium length 4.00-4.09. Length of anterior femur : tibia : tarsus = 2.18-2.21 : 2.61-2.66 : 0.70-0.72, length of hind femur : tibia : tarsus = 2.69-2.75 : 5.70-5.90 : 0.80-0.81.

Remarks. – Closely allied to *M. pronotalis* sp. n. in the body size and shape, but the pronotum always black, the structure of vesica and the left clasper different.

5. *Megacoelum zoui* sp. n. (figs. 31-35)

Type material. – Holotype, male, Mengxiu, Ruili County (24°0'N, 97°48'E), Yunnan Prov., 3.ix.1979, H. G. Zou leg. – Paratypes: 1 male, 1 female, with same locality as holotype, 2.ix.1979, J. X. Cui and G. Q. Liu leg.

Description. – Dark brown, weakly shiny with very dense and short brown pubescence. Head blackish brown, clypeus slightly convex; antennal segment I, extreme base of II and the apical parts of III and IV dark brown, darkened apically, bases of III and IV yellowish brown. Collar brown, median part black, thinner than the basal diameter of antennal segment II. Pronotum medially with a vague longitudinal black stripe. Scutellum convex, black or dark brown, extreme apex brown. Membrane smoky black, veins black. Front legs brown, with darker femora; middle femora and the basal half of tibia dark brown; hind leg reddish black. Thoracic ventral surface dark brown. Venter dark reddish with brown hairs. Knob on pygofer before left clasper in male small. Vesica (fig. 35) with 4 membranous lobes, one of them strongly and densely toothed apically. Left clasper (figs. 31-33) long and curved, right one (fig. 34) short and straight.

Measurements: Body length 7.81-8.37, width 2.61-2.79; head apex to cuneal suture 5.57-5.59. Head length 1.09-1.14; width male 1.25-1.27, female 1.25. Vertex width male 0.43-0.46, female

0.46. Antennal segment lengths 1.14-1.31 : 3.08-3.35 : 2.27-2.51 : 1.17-1.21. Rostrum length 3.35-3.72. Pronotum length 1.30-1.32, width 2.25-2.31. Scutellum length 1.12-1.22, width 1.13-1.26. Corium length 3.58-3.86. Length of anterior femur : tibia : tarsus = 2.01-2.11 : 2.55-2.58 : 0.60-0.67, length of hind femur : tibia : tarsus = 3.15-3.25 : 5.16-5.49 : 0.70-0.80.

Remarks. – This species is distinguished from the others in the dense and short pubescence, the vague longitudinal dark stripe running from pronotum to scutellum, and the structure of male genitalia.

6. *Megacoelum tenuicorne* sp. n. (figs. 36-40)

Type material. – Holotype male, Canton (23°6'N, 113°12'E), Guangdong Prov. – Paratypes: 12 males, 2 females, with same data as holotype; 1 male, 4 females, Baoxing (30°18'N, 102°49'E), alt. 950-1360m, Sichuan Prov., 16/18.vi.1963, L. Y. Zheng and H. G. Zou leg.; 1 female, Mt. Emei (29°30'N, 103°18'E), alt. 600m, Sichuan Prov., 4.vi.1957, L. Y. Zheng and H. H. Cheng leg.; 1 male (TJNM), Jinchuan (31°27'N, 102°0'E), alt. 2000-2300m, Sichuan Prov., 10.ix.1963, S. L. Siu leg.; 1 male, 1 female (TJNM), Cuijiang (25°42'N, 102°0'E), Longsheng County, Guangxi Prov., 24/25.viii.1964, S. L. Liu leg.

Description. – Reddish brown, pubescence sparse, elongate and pale. Female larger than male. Clypeus prominent, frons with fine red transverse stripes at lateral sides; antennae thin and brown, segment I with a brown seta on inner margin; rostrum surpassing hind coxae. Collar brown, with a row of long hairs, slightly thicker than the basal diameter of antennal segment II. Pronotum shiny, smooth, posterior lobe indistinctly wrinkled, basal margin slightly raised; calli somewhat reddish. Scutellum weakly but densely wrinkled, slightly convex. Hemelytra sometimes mottled with some red spots, outer part of corium, embolium and outer part of cuneus semi-transparent, membrane smoky black. Legs brown, apical halves of middle and hind femora, apical 3/4 of middle and hind tibiae reddish brown, tarsi dark. Thoracic ventral surface dull, brown. Venter red. The knob before left clasper in male distinct (fig. 37). Vesica (fig. 36) with 5 membranous lobes, most of them shagreened or toothed, one of them with flossy apex. Left clasper elongate, thin and curved (figs. 37-39), right clasper as in fig. 40.

Measurements: Body length male 6.46-7.00, female 6.95-7.39; width male 2.11-2.48, female 2.42-2.60; head apex to cuneal suture male 4.76-5.13, female 5.07-5.39. Head length 1.05-1.09, width 1.14-1.16. Vertex width male 0.36-0.40, female 0.44-0.66. Antennal segment lengths 1.01-1.17 : 2.95-3.55 : 2.39-2.81 : 1.16-1.41. Rostrum length

3.08-3.62. Pronotum length male 1.12-1.16, female 1.22-1.24; width male 1.84-1.95, female 1.98-2.15. Scutellum length male 0.89-0.96, female 0.92-1.02; width male 0.89-1.02, female 0.99-1.24. Corium length male 3.42-3.49, female 3.72-3.86. Length of anterior femur : tibia : tarsus = 1.84-1.98 : 2.41-

2.52 : 0.63-0.68; length of hind femur : tibia : tarsus = male 2.95-3.02 : 4.59-4.84 : 0.70-0.74, female 3.06-3.18 : 5.03-5.36 : 0.73-0.78.

Remarks. - Differs from other species in the slender antennae and the structure of male genitalia.



Figs. 36-45, *Megacoelum* spp. - 36, *Megacoelum tenuicorne* sp. n., dorsal view of vesica; 37-39, idem, left clasper; 40, idem, right clasper; 41, *Megacoelum yunnanum* sp. n., right clasper; 42, 43, idem, right clasper; 44, idem, vesica in dorsal view; 45, idem, vesica, sclerotized broad plate, ventral view.

7. *Megacoelum yunnanum* sp. n.

(figs. 41-45)

Type material. – Holotype male, Mengla (21°24'N, 101°30'), Yunnan Prov., 24.ix.1979.

Description. – Dark brown, with very dense and short pubescence on the hemelytra. Head dull, brown, antennae brown, subbasal part of segment II and basal 1/3 of III yellowish, IV absent. Collar brown, thinner than the basal diameter of antennal segment II. Pronotum black, basal margin narrowly yellow and slightly reflexed; calli and the area before and behind dark reddish brown; deeply, densely and transversely wrinkled excepting the smooth calli. Scutellum convex, black, lateral angles slightly paler, with fine transverse wrinkles. Hemelytra black with dense and short pubescence, hind part of embolium and outer margin of cuneus reddish, apical 1/3 of cuneus yellowish brown, membrane smoky black. Legs pale brown, apices of anterior and median tibia dark brown. Thoracic ventral surface brown, with black stripes, coxae black. Anterior part of venter reddish brown, posterior part black. The knob on pygofer before left clasper in male short (fig. 42). Vesica (fig. 44) with 5 membranous lobes, the ventral surface of the right one sclerotized into a broad plate with its broad knob-like apex bending sideward and armed with numerous minute teeth (fig. 45); the median one with a slender and shagreened (or minutely toothed) shaft and a widened round apex, the latter armed with numerous strong spines directing ventrad (fig. 44). Left clasper as figs. 42 and 43, right clasper as fig. 41.

Measurements: Body length 67.6, width 2.33; head apex to cuneal suture 5.3. Head length 1.02, width 1.16. Vertex width 0.41. Antennal segment lengths = 1.17 : 2.95 : 1.88 : ?. Pronotum length 1.40, width 2.25. Scutellum length 1.07, width 1.15. Corium length 3.52. Length of anterior femur : tibia : tarsus = 1.88 : 2.17 : 0.60; length of posterior femur : tibia : tarsus = 2.30 : 2.84 : 0.61.

Remarks. – The narrowly yellow and reflexed pronotal basal margin, deeply and transversely wrinkled disk of pronotum, dense and short hemelytral pubescence distinctly distinguish this new species from other members of the genus.

8. *Megacoelum fuscescens* Hsiao, 1963

(figs. 1-5)

Megacoelum fuscescens Hsiao, 1963: 440, 442-443, 448; figs. 1a, 2a, 3. Holotype ♂: Xishuangbanna-Xiaomengyang (22°0'N, 100°48'E), Yunnan Prov., 24.viii.1958 (in Institute of Zoology, Academia Sinica, Beijing) [examined].

Description. – Dark brown, mottled with lighter hue, with sparse, fine, long and greyish hairs. Head brown, eyes black, frons with several oblique stripes on both sides. Antennal segment I, most of IV, and apical 1/4 of II dark brown; III, basal 3/4 of II, extreme base of IV yellowish brown, sometimes extreme base and middle of II dark brown; I with sparse hairs, II to IV with black setae, II with moderately sparse and long hairs, III and IV with short and dense hairs. Rostrum reaching the apex of hind coxae. Collar opaque, pale yellowish brown or dark brown, slightly thinner than the basal diameter of antennal segment II, with a row of long greyish hairs and some pale soft hairs. Pronotum shiny, dark brown, lateral margins and basal part nearly black, extreme basal margin yellowish brown; calli distinctly smooth, reaching antero-lateral angles; posterior pronotal lobe obscurely wrinkled transversely; basal margin slightly curved posterad. Scutellum dark brown, opaque, relatively flat, finely and transversely wrinkled. Hemelytra dark brown, membrane dark. Legs brown, sometimes with dark spots; middle femora and tarsus dark, tibial spine shorter than tibial diameter. Thoracic ventral surface and coxae dull, dark brown. Venter shiny dark brown, sometimes with brown spots, male pygofer with a short knob before left clasper. Vesica with 4 large membranous lobes, among them arised a spicule, slightly flattened and curved dorsally (figs. 1 and 2). Base of left clasper moderately thick, curved and tapered apically (figs. 3 and 4). Right clasper as in fig. 5.

Measurements: Body length 6.8-7.4, width 2.2-2.4; head apex to cuneal suture male 5.2-5.3, female 4.7-4.9. Head length male 1.09, female 1.06-1.07; width male 1.22, female 1.16-1.17. Vertex width male 0.32, female 0.35-0.36. Lengths of antennal segment = male 1.20-1.28 : 2.93-3.15 : 2.67-2.73 : 1.28-1.32, female 1.17-1.19 : 2.68-2.90 : 2.48-2.74 : 1.21-1.29. Rostrum length 3.2. Pronotum length male 1.18-1.43, female 1.12-1.13; width male 1.95-2.14, female 1.90-1.98. Scutellum length 0.99-1.07, width 1.03-1.15. Corium length 3.43-3.59. Length of anterior femur : tibia : tarsus = 1.98 : 2.36 : 0.62; length of hind femur : tibia : tarsus = 3.22-3.35 : 5.03-5.39 : 0.77.

Remarks. – Hsiao & Meng (1963) remarked that this species is 'possibly allied to *M. straminipes* Dist. from India but the first antennal segment shorter, corium concolorously fuscous and apical fourth of posterior femora black'. The species differs from others in the structure of male genitalia.

Material examined. – 1 male, holotype; 2 males, Ruili (24°0'N, 97°48'E), Yunnan Prov., 28/31.viii.1979, Z. P. Ling and J.X. Cui leg.; 3 males, Lianxian County

(24° 42'N, 112° 18'E), Guangdong Prov., 20/24.ix.1962, L. Y. Zheng and H. H. Cheng leg., on Gramineae and *Capsium frutescens* L.; 1 male, 2 females, Longzhou County (22° 18'N, 106° 48'E), Guangxi Prov., 13/18.vii.1964, L. C. Wang leg.; 4 males, 4 females (TJNM), Longzhou County, Guangxi Prov., 15/21.vii.1964, S. L. Liu leg.; 1 female (TJNM), Jianfengling (18° 42'N, 108° 48'E), Hainan Prov., 10.v.1964, S. L. Liu leg.

9. *Megacoelum clypeale* Poppius, 1915

Megacoelum clypeale Poppius, 1915: 14-15. Holotype female: [Taiwan] Kosempo, X, (Deutschen Entomologischen Museum, Berlin) [not examined].

10. *Megacoelum minutum* Poppius, 1915

Megacoelum minutum Poppius, 1915: 15. Holotype male: [Taiwan], Takao, 18.vii.1907, (Universitäts-Museum, Helsingfors) [not examined].

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Received: 24 February 1991

Revised version accepted: 20 August 1991